NOTICE OF COMMISSIONING

1824-A-NOC-112

Date 29th APRIL 2018 – 07:00 AM

SYSTEM ID: N/A

SYSTEM DESCRIPTION: Chemical Cleaning

CONTACT NAME: Julian Blair, Brenton Sherston & Ron Freiley

CONTACT NUMBER: 63799990, 64422720 & 6980-4558

MINERA PANAMA
COMMISSIONING IN PROGRESS
PUESTA EN MARCHA EN PROGRESO
The purpose of this TAG is to IDENTIFY EQUIPMENT which is still in the commissioning phase.
El propósito de esta ETIQUETA es para IDENTIFICAR el EQUIPO que está bajo la etapa puesto en marcha.
This equipment must not be operated without the Permission of the Commissioning Manager or Authorised Nominee.
No operar este equipo sin el Permiso del Director de Comisión o del Designado Encargado.
This Tag can only be removed by the Commissioning Manager or Authorised Nominee.
Solo el Director de Comisión o Designado Encargado puede quitar esta Etiqueta.
SEE OTHER SIDE / VER EL REVERSO

Date 29 de Abril del 2018 – 07:00 AM

ID SISTEMA: N/A

DESCRIPCION DEL SISTEMA: Limpieza Quimica

NOMBRE DEL CONTACTO: Julian Blair, Brenton Sherston & Ron Freiley

NUMERO DE CONTACTO: 63799990, 64422720 & 6980-4558

ENGLISH

Chemical Cleaning of piping and vessels in turbine building 2 including all three floors.

NO Unauthorized entry until further notice.

CONTACT to Commissioning for additional information.

Commissioning team will begin works in this area on April 27, 2018 at 07:00 AM

SPANISH

Limpieza química de tuberías y tanques en el edificio 2 de la turbina, incluidos los tres pisos.

Entrada NO autorizada hasta nuevo aviso.

CONTACTE a Comisionamiento para obtener información adicional.

El equipo de puesta en marcha iniciará trabajos en esta area el 27 de Abril del 2018 a las 07:00 AM.

POST ON ALL PACO SAFETY NOTICE BOARDS

PACO MANAGERS & SUPERINTENDENTS TO **ENSURE** THIS **NOC** IS COVERED IN TOOLBOX MEETINGS AND ALL PERSONNEL ARE AWARE OF THE HAZARDS.

CAUTION
AMMONIA
CUIDADO
AMONIACO

NOTICE OF COMMISSIONING

CHEMICAL CLEANING / LIMPIEZA QUIMICA

TURBINE 2 / TURBINA 2

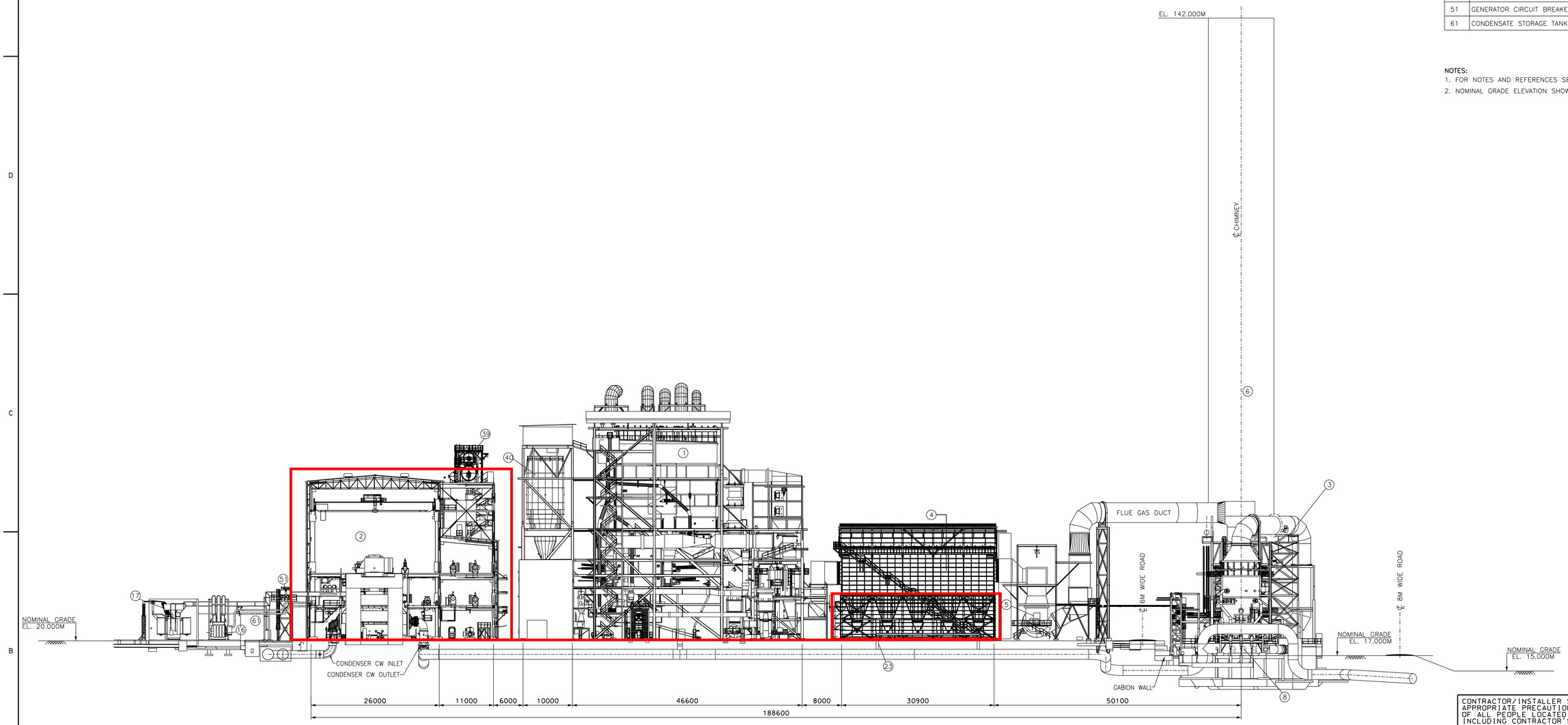
CAUTION
AMMONIA
CUIDADO
AMONIACO

ONLY AUTHORIZED PERSONNEL

SOLO PERSONAL AUTORIZADO

LEGEND	
1	BOILER
2	TURBINE BUILDING
3	SEAWATER FGD
4	BAG HOUSE
5	I.D. FAN
6	CHIMNEY
8	SEAWATER FGD PUMPS
16	UNIT AUXILIARY TRANSFORMER (UAT)
17	GENERATOR STEP UP TRANSFORMER (GSU)
23	AIR PREHEATING AREA WASTE COLLECTION BASIN
39	DEAERATOR
40	COAL SILOS
51	GENERATOR CIRCUIT BREAKER (GCB)
61	CONDENSATE STORAGE TANK

NOTES:
1. FOR NOTES AND REFERENCES SEE DWG MO-001 SHT-001.
2. NOMINAL GRADE ELEVATION SHOWN IS WITH RESPECT TO MSL.



SECTION A-A
(SEE DWG. MO-0001. SHT 002)

0 10 25 50
GRAPHIC SCALE IN METERS

DRAWING RELEASE RECORD					
REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE
E	11FEB2013	M.CHHIBBER	K.THAKOR/V.SHAH	Y.MISHRA/A.LUNARDINI	ISSUED FOR DESIGN
F	04OCT2013	B.SHAH	K.THAKOR/V.SHAH	Y.MISHRA/A.LUNARDINI	ISSUED FOR DESIGN
G	06FEB2014	P.GOHIL	K.THAKOR/V.SHAH	Y.MISHRA/E.SHAMEEM	ISSUED FOR DESIGN WITH OPTION 2A UPDATES
H	31MAR2015	B.SHAH	K.THAKOR/V.SHAH	Y.MISHRA/M.LEUTLOFF	ISSUED FOR DESIGN

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

Contractors: SK E&C USA
Engineers: Sargent & Lundy
Client: Minera Panamá

PROJECT NO.: 12889-001

Project Title:
PACO POWER PLANT

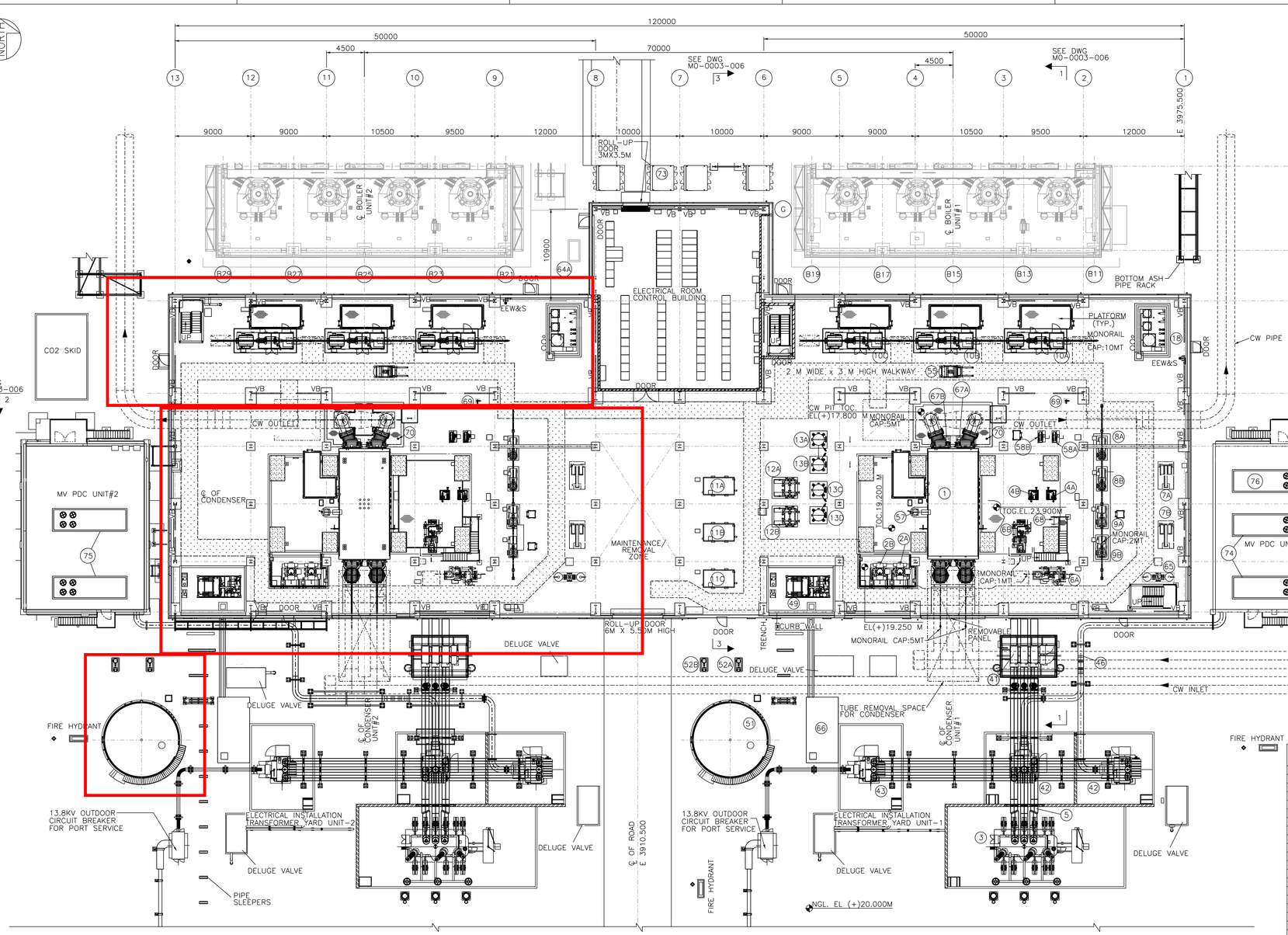
DRAWING TITLE

GENERAL ARRANGEMENT
LONGITUDINAL SECTION
LOOKING EAST

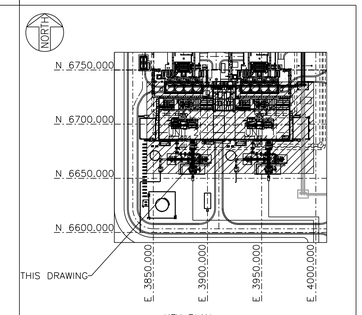
DRAWING NUMBER	REVISION
MO-0001	H
SHEET 003 OF 003	

CAD FILE: MO-0001-003.DGN

mo-0001-003.dgn 3/31/2015 10:49:17 AM



GROUND FLOOR PLAN AT EL. 20.200M



KEY PLAN

LEGENDS

	WALK WAY
	GRATING
	FIRE WALL
	DROP ZONE\REMOVAL SPACE
VB	VERTICAL BRACING
FFL	FINISHED FLOOR LEVEL
EEW&S	EMERGENCY EYE WASH & SAFETY SHOWER

HOLD INFORMATION

NO.	DESCRIPTION

REFERENCE DRAWINGS

DWG. NO.	DRAWING TITLE
MO-0001-001	PLOT PLAN
MO-0003-002	GA TG BLDG MEZZANINE FLOOR
MO-0003-003	GA TG BLDG OPERATING FLOOR
MO-0003-004	GA TG BLDG TURBINE LAYDOWN PLAN
MO-0003-005	GA TG BLDG DEAERATOR FL. & ROOF PLAN
MO-0003-006	GA TG SECTIONAL VIEW
MO-0008-001	GA BOILER AREA
MO-0008-002	GA BOILER SECTIONAL VIEW
MO-0019-001	EQUIPMENT LOCATION PLAN AT TG BUILDING GROUND FLOOR
E1-0601	ELECTRICAL INSTALLATION DRAWING TRANSFORMER YARD UNIT#1
E2-0601	ELECTRICAL INSTALLATION DRAWING TRANSFORMER YARD UNIT#2
E1-0602	ELECTRICAL INSTALLATION TURBINE BUILDING UNIT#1
E2-0602	ELECTRICAL INSTALLATION TURBINE BUILDING UNIT#2

ITEM NO.	TAG NO. UNIT#1	TAG NO. UNIT#2	DESCRIPTION
1	1CD001A	2CD001A	CONDENSER
2A	1CD001PA	2CD001PA	CONDENSATE PUMP A
2B	1CD001PB	2CD001PB	CONDENSATE PUMP B
3	–	–	GENERATOR STEP UP TRANSFORMER (GSU)
4A	1CW003SA	2CW003SA	CONDENSER ONLINE TUBE CLEANING SYSTEM
4B	1CW003SB	2CW003SB	CONDENSER ONLINE TUBE CLEANING SYSTEM
5	–	–	ISOLATED PHASE BUS DUCT(IPBD)
6A	1CA001SA	2CA001SA	CONDENSER VACUUM PUMP
6B	1CA001SB	2CA001SB	CONDENSER VACUUM PUMP
7A	1CW001AA	2CW001AA	CLOSED COOLING WATER HEAT EXCHANGER
7B	1CW001AB	2CW001AB	CLOSED COOLING WATER HEAT EXCHANGER
8A	1WC001PA	2WC001PA	CLOSED COOLING WATER PUMP A
8B	1WC001PB	2WC001PB	CLOSED COOLING WATER PUMP B
9A	1CW003PA	2CW003PA	AUXILIARY COOLING WATER BOOSTER PUMP A
9B	1CW003PB	2CW003PB	AUXILIARY COOLING WATER BOOSTER PUMP B
10A	1FW001PA	2FW001PA	BOILER FEED PUMPS A
10B	1FW001PB	2FW001PB	BOILER FEED PUMPS B
10C	1FW001PC	2FW001PC	BOILER FEED PUMPS C
11A	0SA001CA	–	AIR COMPRESSOR
11B	0SA001CB	–	AIR COMPRESSOR
11C	0SA001CC	–	AIR COMPRESSOR
12A	0IA301DA	–	REFRIGERATION AIR DRYER
12B	0IA301DB	–	REFRIGERATION AIR DRYER
13A	0SA001TA	–	AIR RECEIVER A (SERVICE AIR)
13B	0SA001TB	–	AIR RECEIVER B (SERVICE AIR)
13C	0IA001TA	–	AIR RECEIVER A (INSTRUMENT AIR)
13D	0IA001TB	–	AIR RECEIVER B (INSTRUMENT AIR)
18	1CF001S	2CF001S	CHEMICAL DOSING SKID
41	–	–	GENERATOR CIRCUIT BREAKER (GCB)
42	–	–	UNIT AUXILIARY TRANSFORMER(UAT)
43	–	–	CLIENT SERVICE TRANSFORMER(CST)
46	–	–	CABLE BUS
49	–	–	TURBINE LUBE OIL SYSTEM
51	1CD001T	2CD001T	CONDENSATE STORAGE TANK
52A	1CD010PA	2CD010PA	CONDENSATE TRANSFER PUMP A
52B	1CD010PB	2CD010PB	CONDENSATE TRANSFER PUMP B
55	–	–	FORK LIFT
57	1CD011A	2CD011A	FLASH BOX
58A	1CA002SA	2CA002SB	CONDENSER WATERBOX PRIMING SKID
58B	1CA002SB	2CA002SB	CONDENSER WATERBOX PRIMING SKID
64A	–	–	AIR COOLED CONDENSING UNIT FOR GROUND FLOOR ELECTRICAL ROOM
65	1CW001M	2CW001M	ACW STRAINER
66	–	–	LUBE OIL PIT
67A	1PS305J	2PS305J	HOTWELL SAMPLING PUMP SKID
67B	1PS306J	2PS306J	HOTWELL SAMPLING PUMP SKID
68	1CW346E	2CW346E	COLTCS PANEL
69	1WC002T	2WC002T	CHEMICAL FEEDER
70	1TR001P	2TR001P	CW PIT SUMP PUMP
73	–	–	STATION SERVICE TRANSFORMERS
74	–	–	ROOF TOP PACKAGED AIR CONDITIONING UNIT FOR MV PDC UNIT 1
75	–	–	ROOF TOP PACKAGED AIR CONDITIONING UNIT FOR MV PDC UNIT 2
76	–	–	ROOF TOP PACKAGED AIR CONDITIONING UNIT FOR STG ELECT. ROOM UNIT 1

NOTES

1. ALL DIMENSIONS ARE IN MM AND COORDINATES & ELEVATIONS IN METERS UNLESS OTHERWISE NOTED.
2. COORDINATE SYSTEM ON THIS DRAWING IS THE PLANT COORDINATE SYSTEM. SOUTH-WEST GRID LINE PLANT COORDINATES N 5000.00/E 3000.00 IS EQUIVALENT TO GLOBAL COORDINATES N 995000.00/E 533000.00.
3. LOCATIONS & DIMENSIONS FOR UNIT#2 EQUIPMENT IS SIMILAR TO UNIT#1.
4. TOP OF NOMINAL GRADE LEVEL 20.0M IS WITH RESPECT TO MSL.
5. HOIST CAPACITY SHOWN IS IN METRIC TON.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

Contractors: SK E&C USA

Engineers: Sargent & Lundy

Client: Minera Panamá

PROJECT NO.: 12889-001

Project Title: PACO POWER PLANT

DRAWING TITLE

GENERAL ARRANGEMENT
TURBINE BUILDING
GROUND FLOOR PLAN
AT EL.(+)20.200M

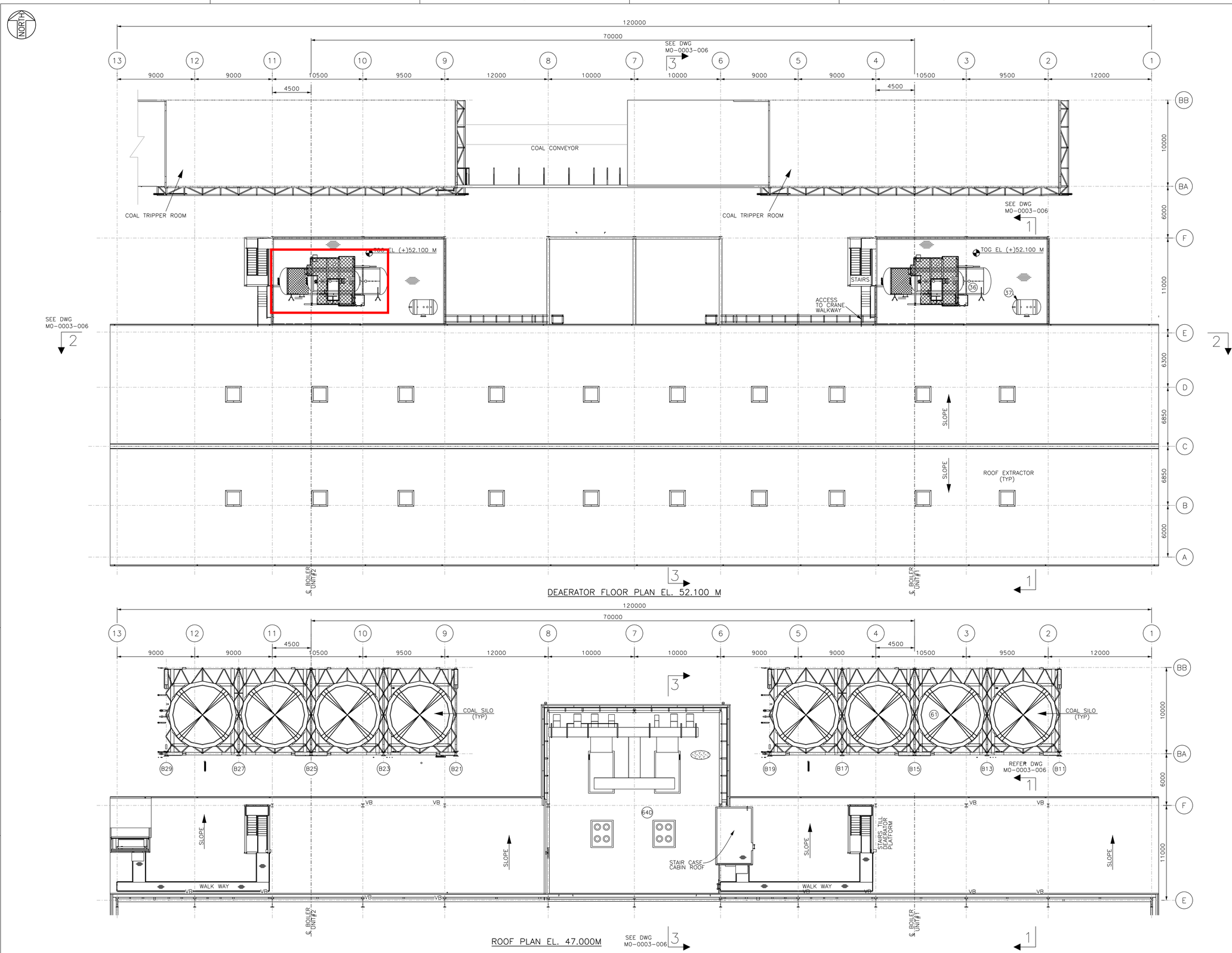
DRAWING NUMBER	REVISION
MO-0003	K
SHEET 001 OF 006	

DRAWING RELEASE RECORD

REV.	DATE REL'D.	PREPARED	REVIEWED	APPROVED	PURPOSE
J	06FEB2014	P.GOHIL	K.THAKOR/V.SHAH	Y.MISHRA/E.SHAMEEM	ISSUED FOR DESIGN WITH OPTION 2A UPDATES
K	31MAR2015	B.SHAH	K.THAKOR/V.SHAH	Y.MISHRA/M.LEUTLOFF	ISSUED FOR DESIGN
H	04OCT2013	K.KOTAK	K.THAKOR/V.SHAH	Y.MISHRA/A.LUNARDINI	ISSUED FOR DESIGN

CAD FILE: MO-0003-001.DGN

mo0003-001.dgn 3/31/2015 2:24:36 PM


NORTH
120000
70000
SEE DWG M0-0003-006
13 12 11 10 9 8 7 6 5 4 3 2 1
9000 9000 4500 10500 9500 12000 10000 10000 9000 9000 4500 10500 9500 12000
BB BA F E D C B A
10000 6000 11000 6300 6850 6850 6000
COAL CONVEYOR
COAL TRIPPER ROOM
COAL TRIPPER ROOM
SEE DWG M0-0003-006
TOG EL (+)52.100 M
TOG EL (+)52.100 M
STAIRS
ACCESS TO CRANE WALKWAY
SEE DWG M0-0003-006
SLOPE
SLOPE
ROOF EXTRACTOR (TYP)
SEE DWG M0-0003-006
SEE DWG M0-0003-006
SEE DWG M0-0003-006